Introduction

Pavement markings have different life expectancy and costs. The low cost pavement marking do not last and must be replaced often, such as paint. Pavements marking location and traffic volumes also are determining factors that contribute to the life expectance of the pavement marking.

The goal is to provide an appropriate pavement marking for all highways, 365 days per year.

Purpose and Definition

The purpose is to establish a statewide approach for pavement marking installation and material life of long lines and special markings (i.e. crosswalks, messages, etc.).

An appropriate pavement marking is one that meets or exceeds the standard in the Manual on Uniform Traffic Control Devices (MUTCD). During snow and ice operations pavement markings should provide delineation after bare pavement is attained.

Guidelines

Every effort shall be made to select pavement marking materials that are compatible with the anticipated life of the surfacing section, before the next surface treatment is performed or the pavement making material that is on adjacent roadway sections. Pavement markings on projects shall be extended, as necessary, so transitions in material types are logical. For example, a short segment with short life material should not separate two road segments with longer life markings. Pavement marking portions of projects should also be extended so termination points of long life materials segments are logical. Examples include exit and entrance ramps within projects and extension of long life materials to major intersections or other logical termini. The termini for longer life markings should be determined project by project prior to Project PS&E between the District, Designer and Design Traffic Engineer.

All pavement marking materials shall be installed according to the manufacture's specifications. This may include removal of existing pavement markings and other surface treatments as recommended by the manufacturer.

The tables provided are for guidance and if it can be justified to use a longer lasting pavement marking than it would be acceptable to do so.

The type of pavement markings should be determined as follows.

1. The designer should determine what the anticipated life of the surface pavement will be before the next surface treatment is performed. The Traffic Safety Section would be able to assist in this determination.

2. The pavement marking material selected should have an anticipated life expectancy that is the same or less than the anticipated life expectancy before the next surface treatment is performed.

Example: The expected life of the new pavement surface on a two lane two way highway is 20 years, but the pavement is to be seal coated in 1 to 4 years, therefore the anticipated life of new pavement is 1 to 4 years before the next surface treatment. This section of highway has a present ADT of <1500. Therefore, the pavement marking center line should be paint and the edge lines should be paint.

Example: The expected life of a new pavement surface on a two lane two way highway is 20 years and the pavement will be seal coated in 1 to 4 years and the ADT is 1500 to 4000, therefore the pavement marking centerline should be paint and the edge lines should be paint.

Example: An asphalt surface having an expected life of 20 years on a two lane two way highway and the ADT is 1500 to 4000, is to be seal coated. It is determined that the seal coat has an anticipated life of 4 to 8 years. The centerline should have tape with masking placed just before the seal coat is placed. The masking shall be removed when the seal is completed and edge lines should be remarked using epoxy.

Example: The expected life of a new concrete surface is 40 years and the pavement will be rehabilitated in 15 years, and the present ADT is over 4000, therefore the pavement markings that will meet these requirements is grooved tape for both center lines and the edge lines.

Pavement Marking Life Expectancy

Materials	ADT					
	<1,500	1,500 - 4000	>4000			
Paint	+- 1 yr.	1 yr.	<1 yr.			
Epoxy	>5 yr.	4-5 yr.	3-4 yr.			
Tape	>5 yr.	>5 yr.	> 5 yr.			
Grooved Tape	>8 yr.	>8 yr.	>8 yr.			

Pavement Marking Goals Two Lane Two Way Highways

Anticipated Surface Life 1 (years)	ADT						
	<1,500		1,500 - 4000		>4,000		
	Edgeline	Centerline	Edgeline	Centerline	Edgeline	Centerline	
0-2	Paint	Paint	Paint	Paint	Paint	Paint	
2-4	Paint	Paint	Paint	Epoxy	Epoxy	Epoxy	
4-6	Paint	Paint	Epoxy	Epoxy	Epoxy	Таре Ї	
6+	Paint	Paint	Ероху	Grooved Tape	Grooved Tape	Grooved Tape	

Pavement Marking Goals Multilane Divided and Undivided Highways

Anticipated Surface Life 1 (years)	ADT						
	<1,500		1,500 - 4000		>4,000		
	Edgeline	Centerline	Edgeline	Centerline	Edgeline	Centerline	
0-2	Paint	Paint	Paint	Paint	Paint	Paint	
2-4	Paint	Paint	Paint	Epoxy	Epoxy	Ероху	
4-6	Epoxy	Tape ^{2,3}	Epoxy	Tape ^{2,3}	Epoxy	Tape ^{2,3}	
6-8	Ероху	Grooved Tape ³	Ероху	Grooved Tape ³	Grooved Tape ³	Grooved Tape ³	

¹ Anticipated life the surface is based on the design life of the new pavement or the anticipated time frame before the next surface treatment.

² Tape shall be placed on lane lines, center lines, and special markings the same day. Use epoxy, or approved equal, on edge lines. Performed Patterned Polymer Tape shall utilize the inlayed method, on both bituminous and concrete pavements, including bridge decks.

³ The grooved tape shall be placed the day after grooving.